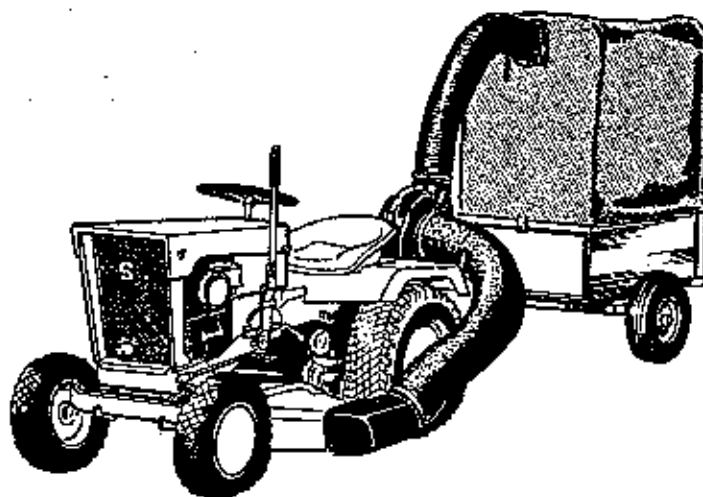


***Simplicity***



## **VACUUM COLLECTOR**

**Mfr's No. 452**

**SIMPLICITY MANUFACTURING COMPANY, INC.**

13345678910

**TP - 1291**

## ASSEMBLY

The cart enclosure for the vacuum collector consists of a metal framework and a canvas cover, all of which fits on the dump cart body. There follow step by step illustrations showing the sequence of assembly for this unit.

A. The enclosure should be constructed on the cart body, starting with the lower channel members shown in Figure 1. The front support assembly is then added as shown in Figure 2. (Refer to the exploded-view and parts list on Pages 8 & 9 for descriptions of the hardware used in this construction).

B. Thread the canvas enclosure over the rear support assembly as shown in Figure 3, and place the other end of the canvas over the front support assembly as illustrated.

C. Now complete the frame construction by attaching the braces to each of the four corners as shown, using the appropriate hardware as called out on the parts list.

D. Figure 4 shows the insertion of the side reinforcing members into the slots at the sides of the canvas enclosure. Secure these in place on both sides as shown in Figure 5, with the capscrews and attaching hardware provided.

E. Insert the front reinforcing member into the slot at the front edge of the enclosure, and attach the catch bracket in the center as shown in Figure 6. The catch is secured with a lock nut which should be tightened just enough to hold securely but still allow pivoting.

F. Attach the upper hanger brackets to the rear support frame as shown in Figure 7. The lower latches on the rear frame support are then attached with the appropriate hardware as called out in the exploded-view and parts list. Check to see that the latches are secure, but still free to pivot.

G. The rear door is constructed by inserting the rear frame into the slots in the rear canvas. The bottom reinforcing rod is then inserted in the bottom canvas slot, and is secured in position by means of the nuts and washers provided. See Figure 8. The reinforcing strap is positioned over the lower outside portion of the door as shown in Figure 9, and is secured in place with the capscrews, spacers and attaching hardware called out on the exploded view and parts list. Attach the upper latching stud assemblies to the holes provided in the upper part of the door frame as shown in Figure 8, then position the top edge of the canvas over the top of the door frame as shown.

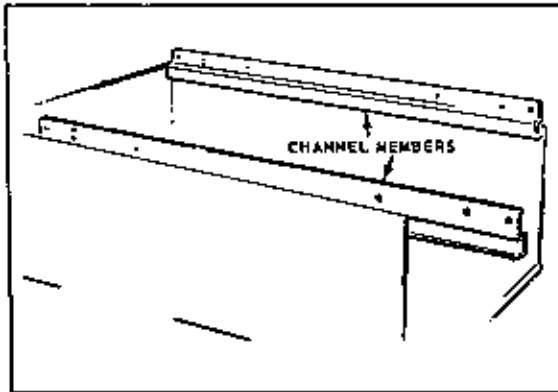


FIGURE 1

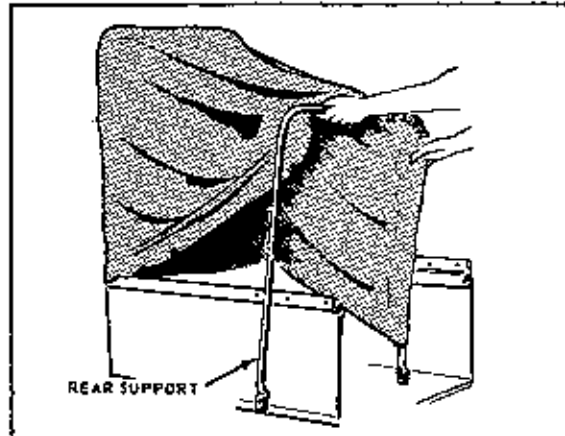


FIGURE 3

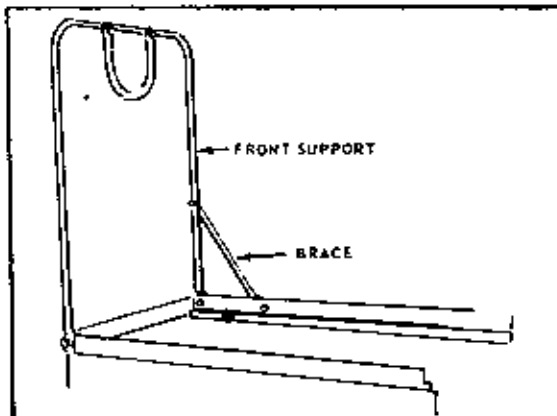


FIGURE 2

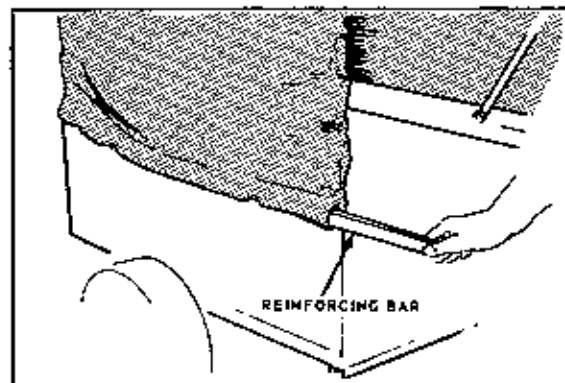


FIGURE 4

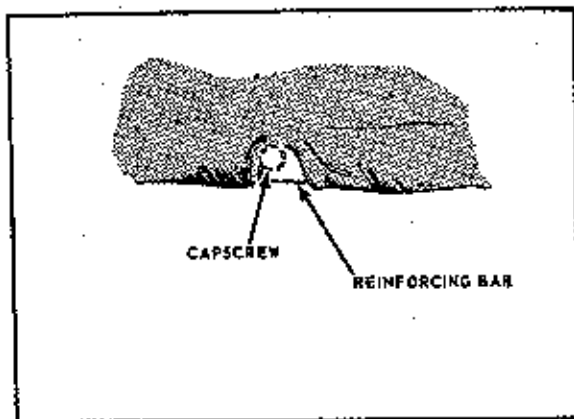


FIGURE 5

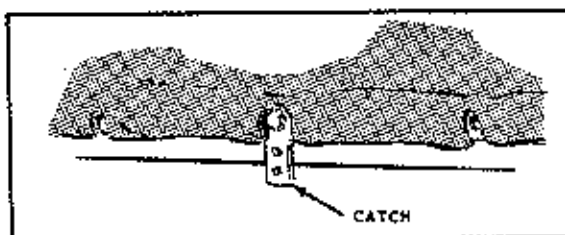


FIGURE 6

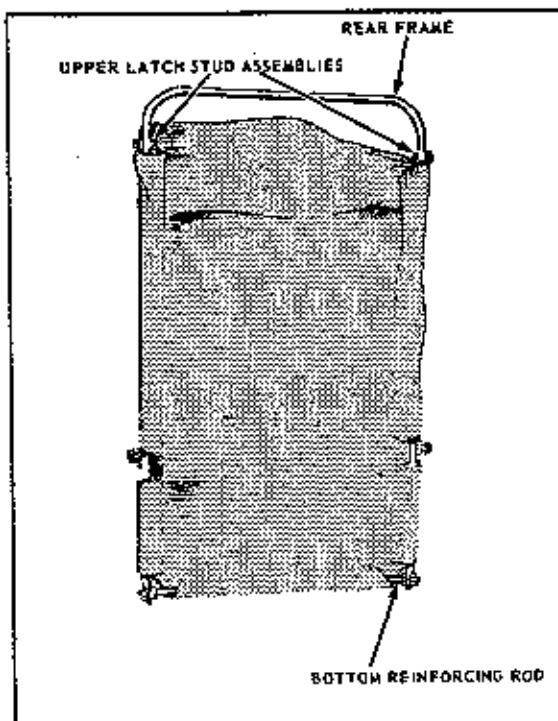


FIGURE 8

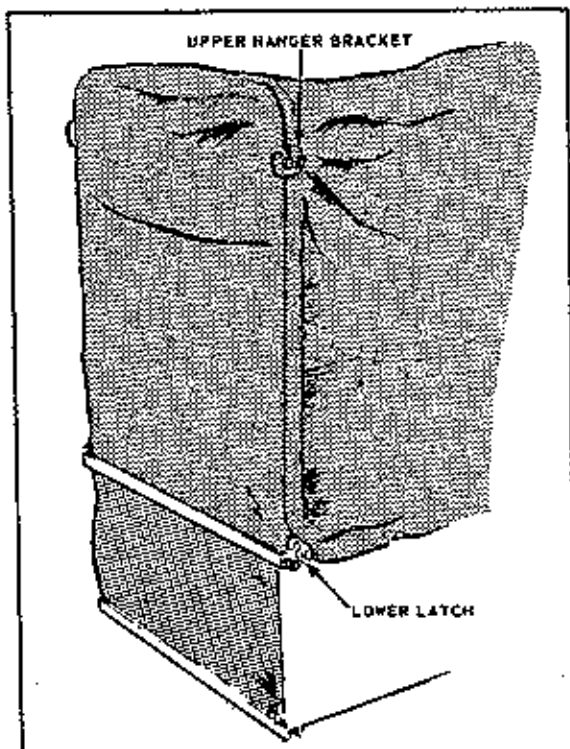


FIGURE 7

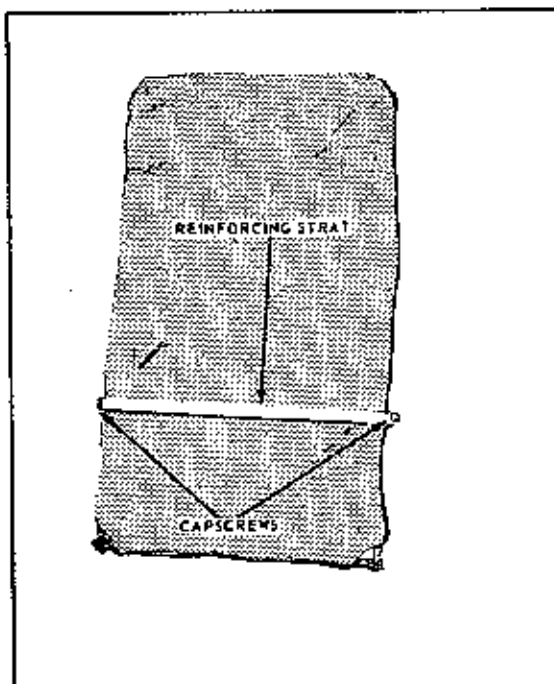


FIGURE 9

## ASSEMBLY

1. The blower unit comes fully assembled except for the hose support bracket. Attach this bracket as shown in Figure 10. Attach the blower unit to the tractor rear hitch by means of the pins and clips provided. The hose support bracket should be adjusted to allow ample clearance between hose and left rear tire.

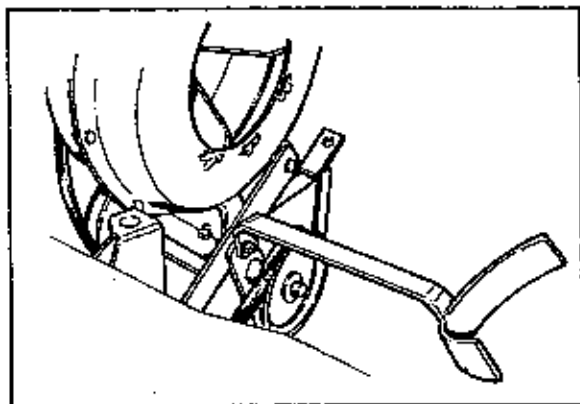


FIGURE 10

2. Prepare the rotary mower attachment for use with the vacuum collector by attaching the correct adapter kit. (Example: See Figs. 11, 12 and 13). Note the bolt nearest the exhaust opening has a spacer and flat washer under the attaching nut (Figure 12). Attach the carriage bolt for the exhaust cover (Figure 12) and secure the cover in position by means of the large wing nut assembly provided in adapter kit (Figure 13).

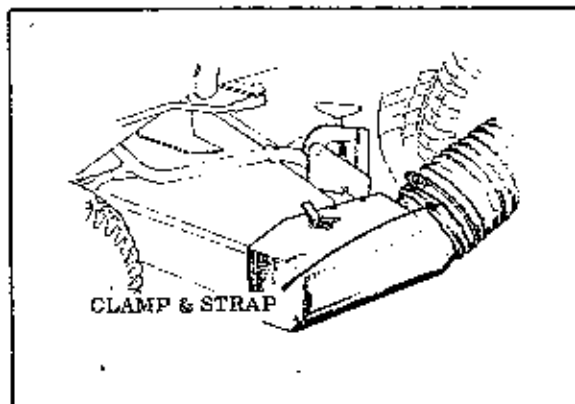


FIGURE 13

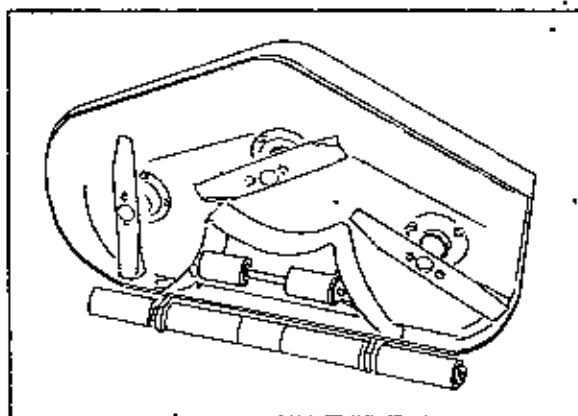


FIGURE 11

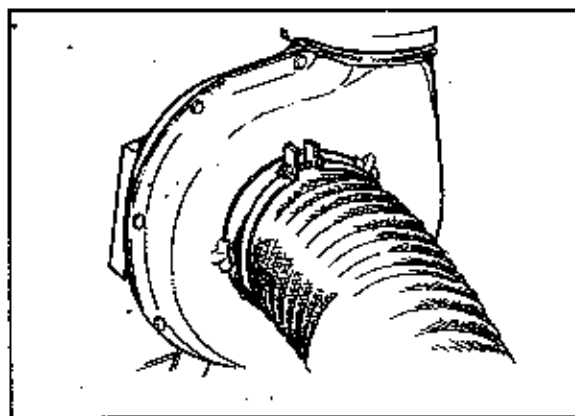


FIGURE 14

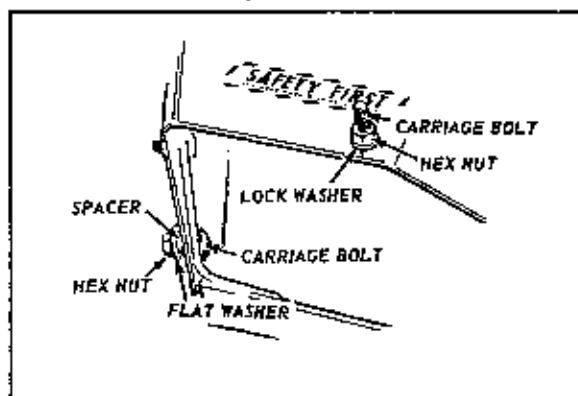


FIGURE 12

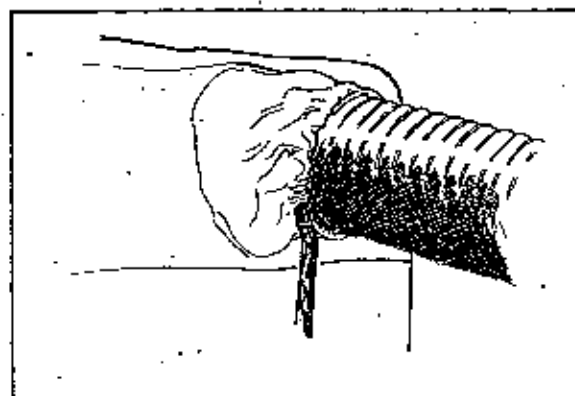


FIGURE 15

3. Secure the large hose to the left side of the blower with the clamp, flange and hardware provided (Figure 14) and then place the other end at the large hose securely over the spout extension on the exhaust cover (Figure 13) of the adapter kit.

4. Install deflector No. 123107 in the exhaust hole at the top of the blower housing with self-tapping screws.

5. Secure one end of the smaller hose at the exhaust hole on the top of the blower housing. Position the other end through the canvas sleeve at the upper front of cart enclosure, and secure it in place by means of the strap and buckle. (Figure 15).

6. Place the pulley (#164202) on the shaft of the bevel gear housing. The new pulley will be secured outboard of the P. T. O. pulley with the key and setscrew provided. (Figure 16).

7. Place "V" belt (furnished with adapter kits) around the previously installed pulley. Run other end around the drive pulley and idler pulley which are mounted on the frame at blower. The spring on the idler pulley will automatically adjust belt tension. (Figure 16).

8. Remove the pulley guard on the upper right side of the blower assembly and position the blower drive belt over the pulleys as shown (Figure 17). Adjust the belt tension as required. A space of approximately 3/4" should be between the set collar and guide bracket when engaged (Figure 17). Replace the pulley guard (Figure 18).

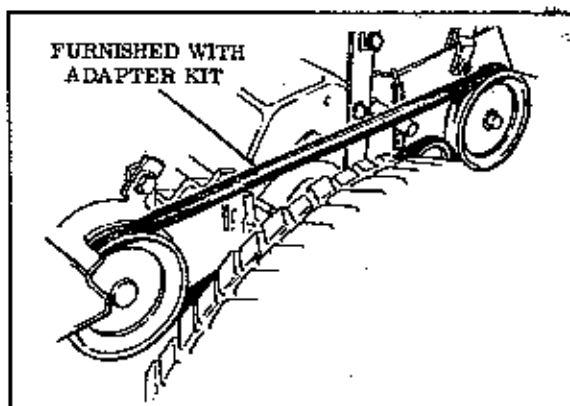


FIGURE 16

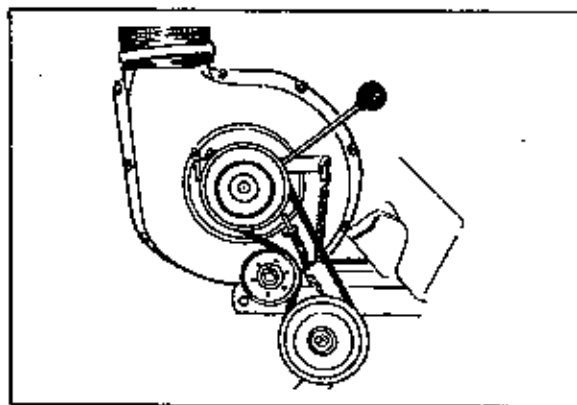


FIGURE 17

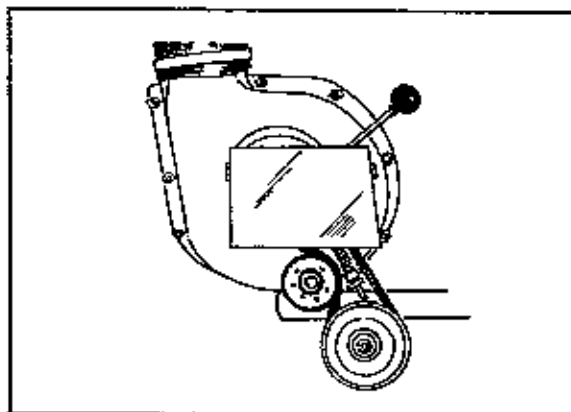
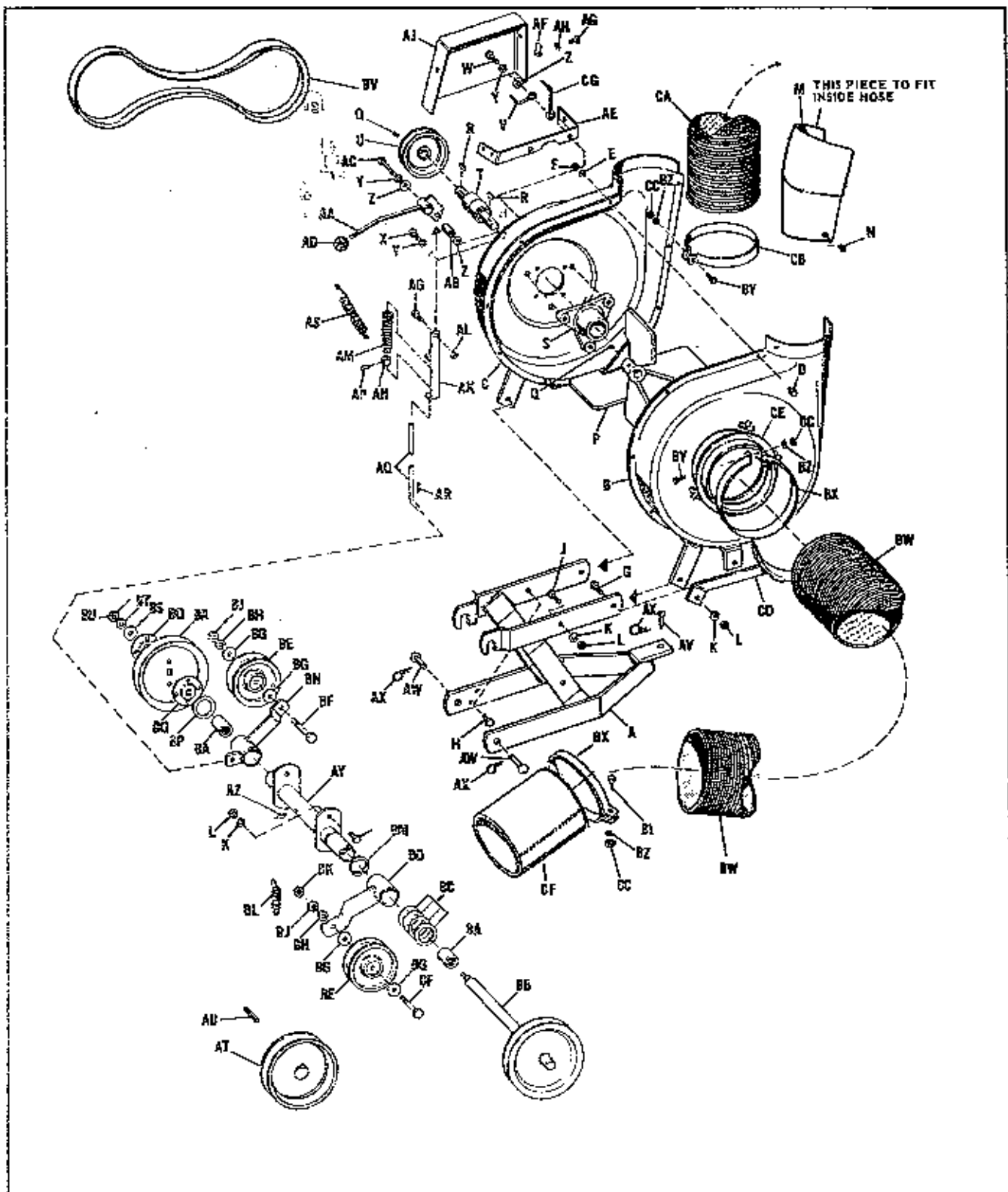


FIGURE 18

**NOTE: AFTER USING CLEAN OUT GRASS IN NECK PORTION OF HOSE AND IN CART.**

# COLLECTOR & BLOWER HOUSING

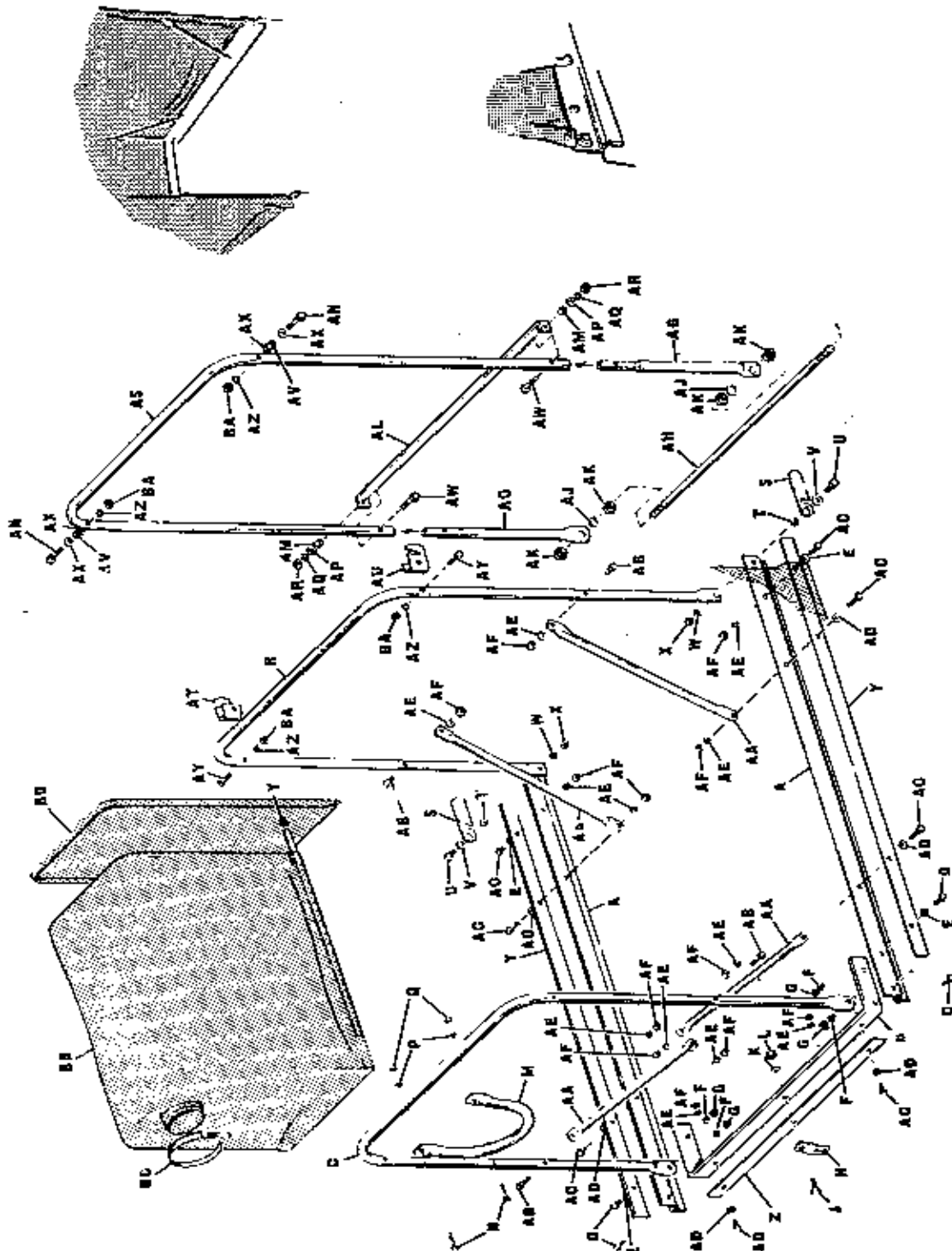


# COLLECTOR & BLOWER HOUSING PARTS LIST

Ref. Let.	Part No.	Description
A	123001	Blower Housing Support Assembly
B	123126	Housing Assembly Inlet Half
C	123012	Housing Assembly R. H. Half
D	705003	Hex Capscrew 1/4-20 x 1/2" lg.
E	720003	Lockwasher 1/4"
F	717005	Hex Nut Full 1/4-20
G	705006	Hex Cap Screw 3/8 - 16 x 1" lg.
H	705016	Hex Cap Screw 3/8 - 16 x 1-1/4" lg.
J	705009	Hex Cap Screw 3/8 - 16 x 1-1/2" lg.
K	720002	Lockwasher 3/8"
L	717003	Hex Nut Full 3/8 - 16
M	123107	Deflector
N	714014	Screw Self-Tapping #10 x 3/8" lg.
P	123015	Fan Assembly
Q	713006	Set Screw Sq. Hd. 5/16-18 x 1/2" lg.
R	725504	Key Hi-Pro
S	123087	Flange, Shaft and Bearing Assembly
T	123619	Shaft and Bearing
U	106663	Pulley
V	106346	Belt Stop
W	705009	Hex Capscrew 3/8 - 16 x 1-1/2" lg.
X	705004	Hex Capscrew 3/8 - 16 x 3/4" lg.
Y	720002	Lockwasher 3/8"
Z	719002	Washer Plain
AA	123082	Clutch Lever Assembly
AB	123027	Spacer, Clutch Lever
AC	705006	Hex Capscrew 3/8 - 16 x 2" lg.
AD	106567	Knob
AE	164205	Bracket, Belt Guard
AF	718030	Nut, Retainer
AG	705012	Hex Capscrew 5/16-18 x 5/8" lg.
AH	720001	Lockwasher 5/16
AJ	164206	Belt Guard
AK	123076	Rod Guide Assembly
AL	717511	Hex Nut Full 5/16 - 18
AM	8191045	Spring
AN	8191022	Set Collar
AP	713001	Set Screw Sq. Hd. 1/4-20 x 3/8" lg.
AQ	164203	Clutch Rod-Blower

Ref. Let.	Part No.	Description
AR	722001	Cotter Pin 3/32 x 3/4" lg.
AS	121037	Spring
AT	164202	Pulley
AU	8061081	Key
AV	118053	Pin
AW	155037	Pin
AX	8161045	Spring Cup
AY	164192	Bearing Housing Assembly
AZ	727002	Grease Fitting
BA	154258	Needle Bearing
BB	164200	Traverse Shaft Assembly
BC	8141003	Washer
BD	164199	Tension Arm Assembly
BE	108386	Idler Pulley
BF	705006	Hex Capscrew 3/8 - 16 x 2" lg.
BG	719001	Plain Washer 3/8"
BH	720002	Lockwasher 3/8"
BJ	717003	Hex Nut Full 3/8 - 16
BK	717510	Hex Nut Full Lock 3/8 - 16
BL	158189	Spring, Tension
BM	164204	Retaining Ring
BN	164196	Idler Arm Assembly
BP	8141003	Washer
BQ	158196	Special Washer
BR	158195	Pulley
BS	719003	Washer Plain
BT	720006	Lockwasher
BU	717022	Hex Nut Full 7/16 - 14
BV	161098	"V" Belt-P. T. O.
BW	123064	Hose Intake (7" Dia.)
BX	123065	Hose Clamp
BY	715069	Machine Screw Rd. Hd. 1/4-20 x 3" lg.
BZ	720003	Lockwasher 1/4"
CA	123066	Hose Exhaust (6" Dia.)
CB	123067	Hose Clamp
CC	717005	Hex Nut Full 1/4-20
CD	123068	Hose Support Assembly
CE	123111	Flange
CF	123117	Hose Extension
CG	163066	Belt Stop

# TRAILER FRAME & COVER

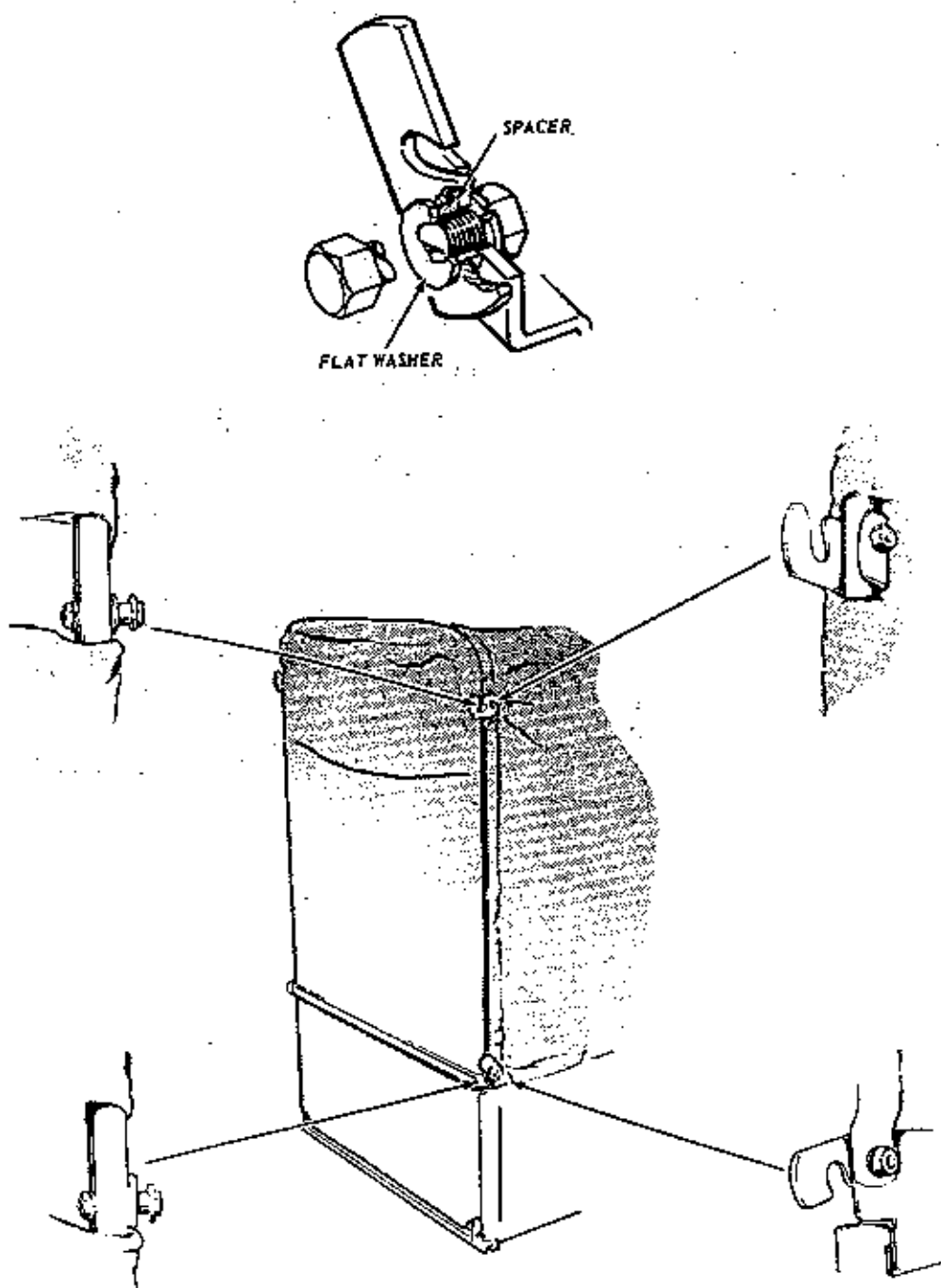




# TRAILER FRAME & COVER

## PARTS LIST

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
A	123036	"Z" Bar, Side	AC	705030	Hex Capscrew, 1/4"-20 x 3/4" lg.
B	123037	Front Bar	AD	719006	Plain Washer, 1/4"
C	123038	Front and Rear Upright	AE	720003	Lock Washer, 1/4"
D	705007	Hex Capscrew, 5/16"-18 x 1" lg.	AF	717005	Hex Nut, Full, 1/4"-20
E	719002	Plain Washer, 5/16"	AG	123042	Tube, Rear Door
F	720001	Lock Washer, 5/16"	AH	123043	Rod, Rear Door
G	717001	Hex Nut, Full, 5/16"-18	AJ	720004	Lock Washer, 1/2"
H	112060	Bracket	AK	717006	Hex Nut, Full, 1/2"-13
J	705005	Hex Capscrew, 3/8"-16 x 1" lg.	AL	123044	Bar, Rear Door
K	719001	Plain Washer, 3/8"	AM	123045	Spacer
L	717510	Hex Lock Nut, Full, 3/8"-16	AN	705025	Hex Capscrew, 1/4"-20 x 1-3/4" lg.
M	123039	Rose Support	AP	719006	Plain Washer, 1/4"
N	705008	Hex Capscrew, 1/4"-20 x 1-1/4 lg.	AQ	720003	Lock Washer, 1/4"
P	720003	Lock Washer, 1/4"	AR	717005	Hex Nut, Full, 1/4"-20
Q	717005	Hex Nut, Full, 1/4"-20	AS	123046	Top Rear Door
R	123039	Front and Rear Upright	AT	123047	Catch, Door, R. H.
S	123040	Rear Door Latch	AU	123048	Catch, Door, L. H.
T	156150	Spacer	AV	123045	Spacer
U	705001	Hex Capscrew, 5/16"-18 x 7/8" lg.	AW	705033	Hex Capscrew, 1/4"-20 x 1-3/4" lg.
V	719002	Plain Washer, 5/16"	AX	719006	Plain Washer, 1/4"
W	720001	Lock Washer, 5/16"	AY	705008	Hex Capscrew, 1/4"-20 x 1-1/4" lg.
X	717001	Hex Nut, Full, 5/16"-18	AZ	720003	Lock Washer, 1/4"
Y	123032	Hold Down Strip, Side	BA	717005	Hex Nut, Full, 1/4"-20
Z	123033	Hold Down Strip, Front	BR	123049	Cart Hood
AA	123041	Cross Brace Tube	BC	123050	Rose Strap
AB	705004	Hex Capscrew, 1/4"-20 x 1-1/4" lg.	BD	123031	Door Cover



## WARRANTY

The company warrants Simplicity Products to be free from defects in material and workmanship except the company makes no warranty express or implied with respect to tires, engines and engine accessories which generally are warranted by their respective manufacturers. Any part covered by this warranty which is proven defective within one year, under normal use, from date of purchase, will be replaced free of charge, f.o.b. Port Washington, Wisconsin, provided such part is returned to factory transportation charges prepaid and is found to be defective upon examination at the factory. The company is not obligated under this warranty to bear cost of labor or delivery charges in replacement of defective parts. This warranty does not apply to any Simplicity Products altered outside of Simplicity's factory. Such replacement of defective parts shall be the exclusive remedy and in no event shall Simplicity be liable for consequential damages. EXCEPT AS SPECIFICALLY PROVIDED HEREIN, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON ANY SIMPLICITY PRODUCT.

Should warranty service be necessary, the information below should be presented to the authorized SIMPLICITY Dealer.

Customer's Name \_\_\_\_\_

Address \_\_\_\_\_

Mfg. No. \_\_\_\_\_ Serial No. \_\_\_\_\_

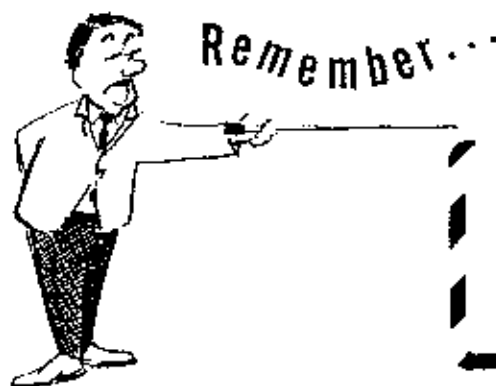
Date Purchased \_\_\_\_\_

Purchased From \_\_\_\_\_

Address \_\_\_\_\_

Engine Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Type No. \_\_\_\_\_

To obtain replacement parts from dealer, advise quantity, part number and description.



### FOR YOUR SAFETY

- 1 ALWAYS STOP ENGINE BEFORE LEAVING MACHINE
- 2 ALWAYS STOP ENGINE BEFORE SERVICING OR ADJUSTING MACHINE OR EQUIPMENT
- 3 ALWAYS KEEP HANDS, FEET AND CLOTHING AWAY FROM POWER-DRIVEN PARTS

